,	Application No.	Applicant(s)
Notice of Allowability	Approacion No.	Approant(s)
	09/886,741	CHAN ET AL.
	Examiner	Art Unit
	Chris C. Chu	2815
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. X This communication is responsive to 10/23/06.		
2. The allowed claim(s) is/are <u>2 - 9, 11 - 13, 17, 18, 20, 23 - 25, 41, 44 - 48, 53, 54, 56 - 61 and 63 - 67.</u>		
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		.*
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 📋 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	_	
1. Notice of References Cited (PTO-892)	5. Notice of Informal F	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛭 Examiner's Amend	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
of Biological Material	9.	

Application/Control Number: 09/886,741

DETAILED ACTION

EXAMINER'S AMENDMENT

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with Christopher J. Reckamp (Registration No. 34,414) on November 7, 2006.

The application has been amended as follows:

(A) In the specification:

The Title has been changed from "MULTI-DIE MODULE AND METHOD THEREOF" to --MULTI-DIE MODULE--

- (B) In the claims:
 - a) Cancel non-elected claims 10, 14, 19, 22, 26, 42, 50, 52 and 62.
 - b) In claim 17, line 2, before "are" deleted [packaged memory] and inserted --pre-packaged memory die--.
 - c) In claim 25, line 2, after "are" deleted [packaged memory] and inserted -pre-packaged memory die--.

Application/Control Number: 09/886,741 Page 3

Art Unit: 2815

REASONS FOR ALLOWANCE

3. Claims 2 – 9, 11 – 13, 17, 18, 20, 23 – 25, 41, 44 – 48, 53, 54, 56 – 61 and 63 – 67 are allowed.

4. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or suggest, either singularly or in combination, at least the planar top surface of an encapsulated structure and the top surface of a pre-packaged semiconductor die being of equal distance from a substrate. Tutsch et al. (U. S. Pat. No. 6,630,727) and Sudo et al. (U. S. Pat. No. 5,475,264) disclose at least the planar top surface of an encapsulated structure and the top surface of a packaged semiconductor die being of equal distance from the substrate. However, the packaged semiconductor die of Tutsch et al. and Sudo et al. is not a separately pre-packaged semiconductor die, i.e., a die is separately packaged before attaching on a substrate. Thus, Tutsch et al. and Sudo et al. do not teach at least the planar top surface of an encapsulated structure and the top surface of a pre-packaged semiconductor die being of equal distance from a substrate as set forth in claims 56 – 59 and 61.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris C. Chu whose telephone number is 571-272-1724. The examiner can normally be reached on 11:30 - 8:00.

Application/Control Number: 09/886,741

Art Unit: 2815

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chris C. Chu Examiner

Page 4

Art Unit 2815

Tuesday, November 07, 2006

SUPERVISORY PATENT EXAMINA

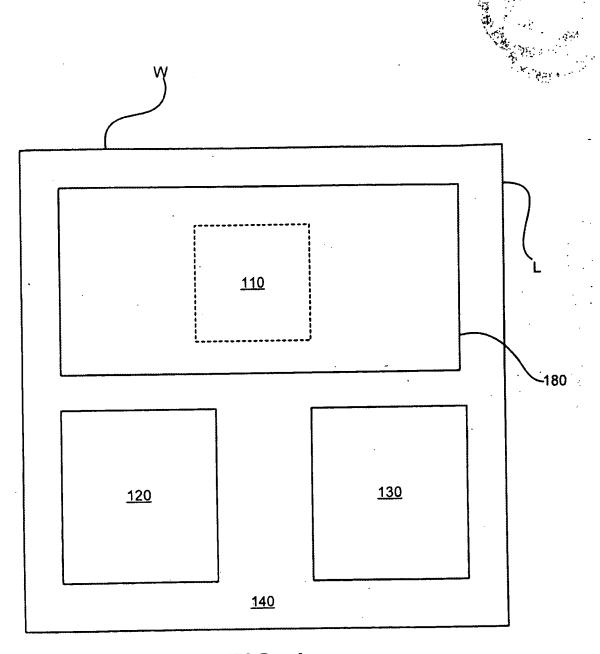
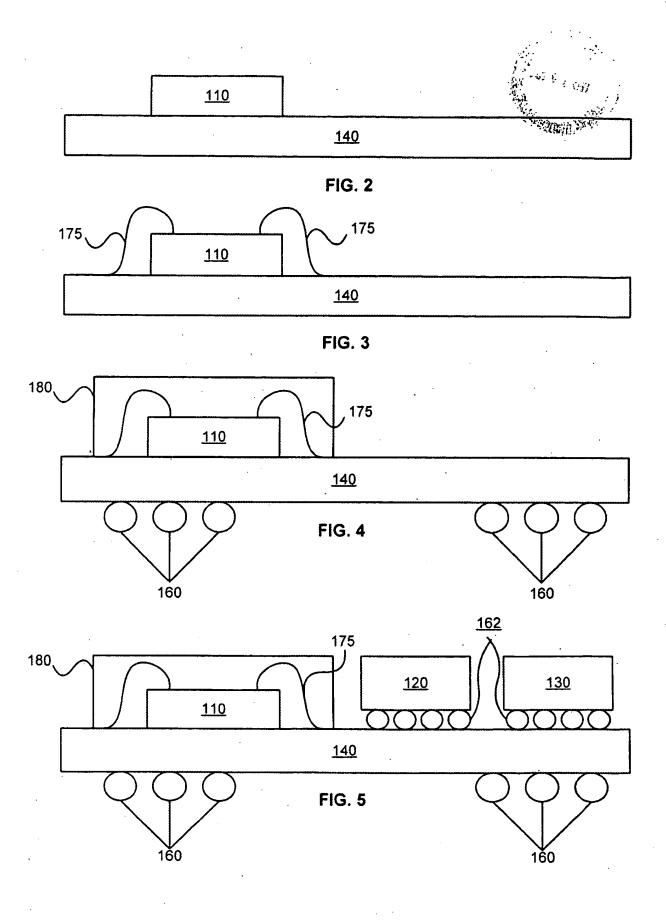
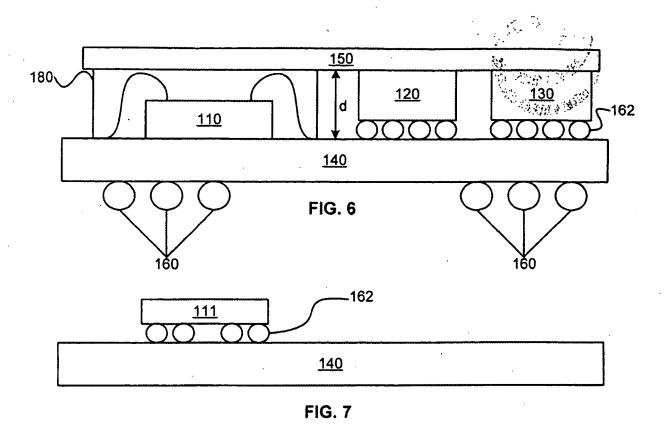
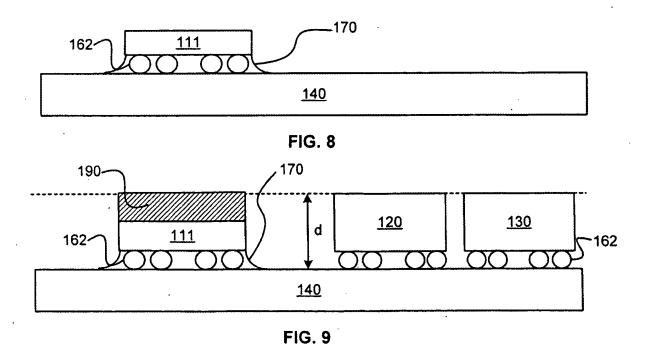


FIG. 1

<u>100</u>







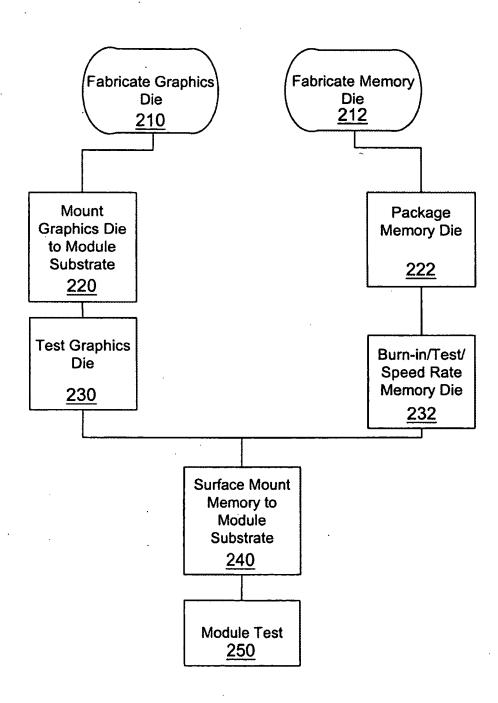


FIG. 10





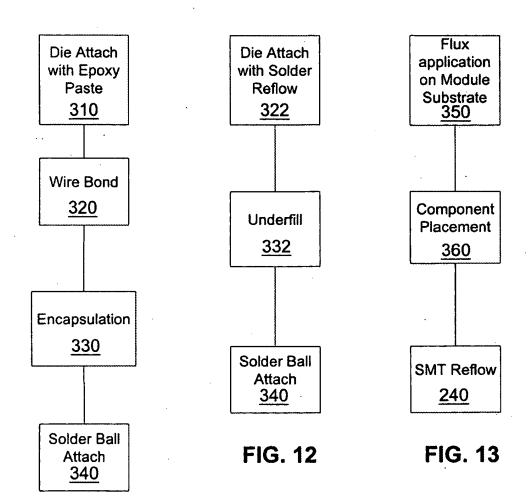


FIG. 11

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